

Nixon & Vanderhye P.C.

ATTORNEYS AT LAW

11TH FLOOR 901 NORTH GLEBE ROAD ARLINGTON, VIRGINIA 22203-1808 UNITED STATES OF AMERICA

January 24, 2007

TELEPHONE: (703) 816-4000 FACSIMILE: (703) 816-4100 WRITER'S DIRECT DIAL NUMBER:

(703) 816-4028

e-mail: scs@nixonvan.com

United States Department of Commerce U.S. Patent and Trademark Office Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attn: Art Unit 2132 - Examiner Kristen D. Sandoval

Subject: U.S. Patent Application No. 09/911,765

Inventor: Muttik
Our Ref.: 550-247

Dear Sir:

Returned herewith is the Final Official Action mailed January 12, 2007 which was mistakenly forwarded to this firm. Attention is directed to the Change of Correspondence Address form filed June 26, 2006.

Very truly yours,

NIXON & VANDERHYE P.C.

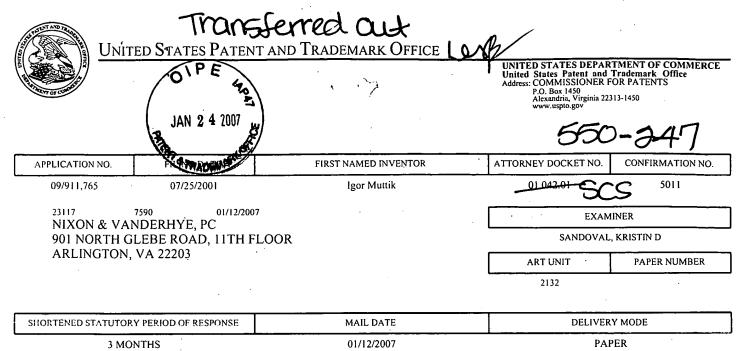
Stanlex¢. Spooner

SCS/kmm

Enclosure:

Final Official Action mailed January 12, 2007

cc: Kevin J. Zilka, Esq., Zilka-Kotab, PC w/ encl.



Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

DOCKETED

CLT/MATTER #______

MAIL DATE ______

DUE DATE ______

FINAL DEADLINE ______

DOCKETED BY ______

| Application No. | Applicant(s) | |
|---------------------|---------------|---|
| 09/911,765 | MUTTIK ET AL. | |
| Examiner | Art Unit | |
| Kristin D. Sandoval | 2132 | • |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNICATION.

| WHICHEVER IS LONGER, FROM THE MAILING DATE OF Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and Failure to reply within the set or extended period for reply will, by statute, cause the Any reply received by the Office later than three months after the mailing date of this earned patent term adjustment. See 37 CFR 1.704(b). | event, however, may a reply be timely filed d will expire SIX (6) MONTHS from the mailing date of this communication. application to become ABANDONED (35 U.S.C. § 133). |
|--|--|
| Status | |
| 1) Responsive to communication(s) filed on 30 October 2 2a) This action is FINAL. 2b) This action is 3) Since this application is in condition for allowance exceed closed in accordance with the practice under Ex parter. | s non-final. ept for formal matters, prosecution as to the merits is |
| Disposition of Claims | |
| 4) Claim(s) 1-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from 5) Claim(s) 48 and 49 is/are allowed. 6) Claim(s) 1-47,50 and 51 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election | |
| Application Papers | |
| 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or Applicant may not request that any objection to the drawing(Replacement drawing sheet(s) including the correction is received. 11) The oath or declaration is objected to by the Examiner. | s) be held in abeyance. See 37 CFR 1.85(a). quired if the drawing(s) is objected to. See 37 CFR 1.121(d). |
| Priority under 35 U.S.C. § 119 | |
| 12) Acknowledgment is made of a claim for foreign priority a) All b) Some * c) None of: 1. Certified copies of the priority documents have to copies of the priority documents have to some soft the certified copies of the priority documents have to some soft the certified copies of the priority documents have to some soft the certified copies of the priority documents have to some soft the certified copies of the priority documents have to some soft the certified copies of the priority documents have to some soft the priority documents have the the priority docu | peen received. peen received in Application No uments have been received in this National Stage Rule 17.2(a)). |
| Attachment(s) | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/30/06. | 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other: |

1. Claims 1-51 are pending.

Claim Rejections - 35 USC § 112

2. Amendments to the claims overcome the previous 112 rejections.

Response to Arguments

3. Applicant's arguments filed October 30, 2006 have been fully considered but they are not persuasive.

With regard to Applicant's arguments that Gryaznov fails to teach dividing an on-access malware scan into a plurality of tasks and a malware scanning task being one of a plurality of malware scanning tasks that are each part of an on-access malware scan, Examiner respectfully disagrees. Gryaznov discloses a virus scan that scans news messages for viruses. In order to complete the scan of the news messages, the virus scan is divided up into multiple tasks, these tasks consist of individual partitioned virus scans, where each virus scan is responsible for scanning a portion of the news messages where the scanning occurs in parallel (5:46-6:13).

With regard to Applicant's argument that Gryanzov fails to suggest issuing a plurality of tasks to be performed by a plurality of different computers, the Examiner respectfully disagrees. Gryaznov discloses the various tasks of virus scanning different partitions of the news messages occurring concurrently on a plurality of partition servers which constitute a plurality of different computers (6:1-13).

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With regard to Applicant's argument that Gryaznov fails to disclose a plurality of malware scanning task results corresponding to a plurality of malware scanning tasks being collated to form a scan result corresponding to said on-access malware scan, Examiner respectfully disagrees. Gryaznov discloses each virus scanner, upon discovering any infected file, sending warning messages to a list of specified addressees, including the administrator for the virus scanners. Therefore, the results of each task, which consists of the partitioned virus scan, are collated at the administrator for all the virus scanners since the administrator receives all results in the form of warning messages (7:36-45).

With regard to Applicant's argument that Gartside fails to teach not further dividing an on-access malware scan if the malware scan is detected as having a complexity below a predetermined threshold level, Examiner respectfully disagrees. Gartside discloses a complexity level based on pre-compressed archive size, number of files within the archive and number of file types. If the levels of these factors are below a predetermined threshold then the overall complexity of the scan is below a certain threshold level and thus, the scan is not further divided beyond scanning for an excessive pre-compressed archive size, number of files with the archive and number of file types (6:25-64).

Allowable Subject Matter

4. Claims 48 and 49 allowed.

-Conclusion

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scanners are identifying properties of a computer file since they are identifying viruses which are properties of the computer file that they are infecting).

As por claims 8, 23 and 38:

Gryaznov discloses a computer program product wherein the one or more tasks are further divided into sub-tasks (5:46-67, fig. 4a-4c, wherein the sequence of process steps are the tasks, which are the multiple virus scans into sub-tasks which are the processing steps that each virus scan is broken down into).

As per claims 12, 27, 42 and 50:

Gryaznov discloses a computer program product wherein the result collating logic terminates any outstanding tasks if a task result is received indicating detection of malware within said computer file (7:36-45).

As per claim 51:

Gryaznov discloses a computer program product wherein said plurality of tasks are distributed among said plurality of different computers via network (6:1-13)

Claim Rejections - 35 USC § 103

Claims 2-4, 9-11, 14, 17-19, 24-26, 29, 32-34, 39-41, 44 and 46-47 rejected under 35
U.S.C. 103(a) as being unpatentable over Gryaznov (U.S. 6,748,534) as applied to claims 1, 7,
13, 16, 22, 28, 31, 37 and 43 above, and further in view of Gartside, U.S. Patent No. 6,851,058.
As per claims 2-4, 14, 17-19, 29, 32-34 and 44:

Gryaznov fails to teach computer files being divided into component files that contain embedded computer files to also be component computer files wherein the computer file is one

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of a given list of types. However, Gartside discloses a method wherein a computer file is an archive file and the archive file is broken down into its component files which are further broken down if embedded files exist in order to be scanned (3:36-50 wherein the files are extracted from the archive and are thus divided out from the file and if one of the files is thus embedded and is an archive, it is extracted for scan, therefore the computer file is divided into component computer files to be separately scanned, 4:39-48, 1:53-63).

As per claims 9-11, 24-26 and 39-41 and 46-47:

Gryaznov fails to teach where a task is selected to be issued to another computer in dependence upon one of a variety of reasons and the scan dividing logic does not divide the scan if the scan is detected as having a complexity below a predetermined threshold level and where the complexity is determined as a function of one or more of a list. However, Gartside discloses an archive file not being divided if it is below a certain complexity level (6:17-65) wherein the complexity level is determined as a function of the archive file (6:17-65), and a scan being selected to happen depends upon the storage space available (4:61-5:6).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to combine the distributed scanning invention of Gryaznov with the archive scanning of Gartside because if the news database contained files with embedded files they could utilize a severe amount of processing power and memory space in order to scan through all of them (Gartside, 1:64-2:6). Therefore, the division of the embedded archive files would allow the news database to provide the processing and bandwidth throughput required by a growing dataset (Gryaznov, 2:33-40).

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8. Claims 6, 21 and 36 rejected under 35 U.S.C. 103(a) as being unpatentable over Gryaznov as applied to claims 1 and 5 above, and further in view of Ranger et al. (Ranger), U.S. Patent No. 6,393,568.

As per claims 6, 21 and 36:

Gryaznov fails to teach the plurality of tasks seeking to identify different portion of one of a cryptographic analysis and an emulation analysis. However, Ranger discloses a method wherein a virus scans employs a cryptographic analysis in order to determine whether any unsolicited content is present within an encrypted file (2:25-46).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to utilize the invention of Ranger in combination with the invention of Gryaznov in order to detect viruses in encrypted news threads and thus increase the ability of the virus scanners to locate computer viruses in not only embedded computer files but also encrypted ones.

Allowable Subject Matter

9. Claims 48 and 49 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristin Derwich whose telephone number is 571-272-7958. The examiner can normally be reached on Monday - Friday, 8:00-5:30.

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristin D. Sandoval whose telephone number is 571-272-7958. The examiner can normally be reached on Monday - Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kristin D Sandoval Examiner Art Unit 2132

KDS

GILBERTO BARRON JYC SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100



Form 1449 (Modified)

Information Disclosure

Statement By Applicant

(Use Several Sheets if Necessary)

Atty. Docket No.

NAI1P466/01.042.01 Applicant:

Muttik et al.

Filing Date: 07/25/2001

Application No.:

09/911,765

Group Art Unit: 2132

U.S. Patent Documents

| | U.S. I stell Documents | | | | | | | |
|---------------------|------------------------|------------|------------|----------|-------|---------------|-------------|--|
| Examiner Initial | No. | Patent No. | Date | Patentee | Class | Sub- class | Filing Date | |
| KS | A | 7,043,758 | 05/09/2006 | Grupe | 726 | 24 | 06/15/2001 | |
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Foreign Patent or Published Foreign Patent Application

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Other Documents

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| Examiner /Kristin | Sando | val/ (01/03/2007) | Date Considered | |

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.